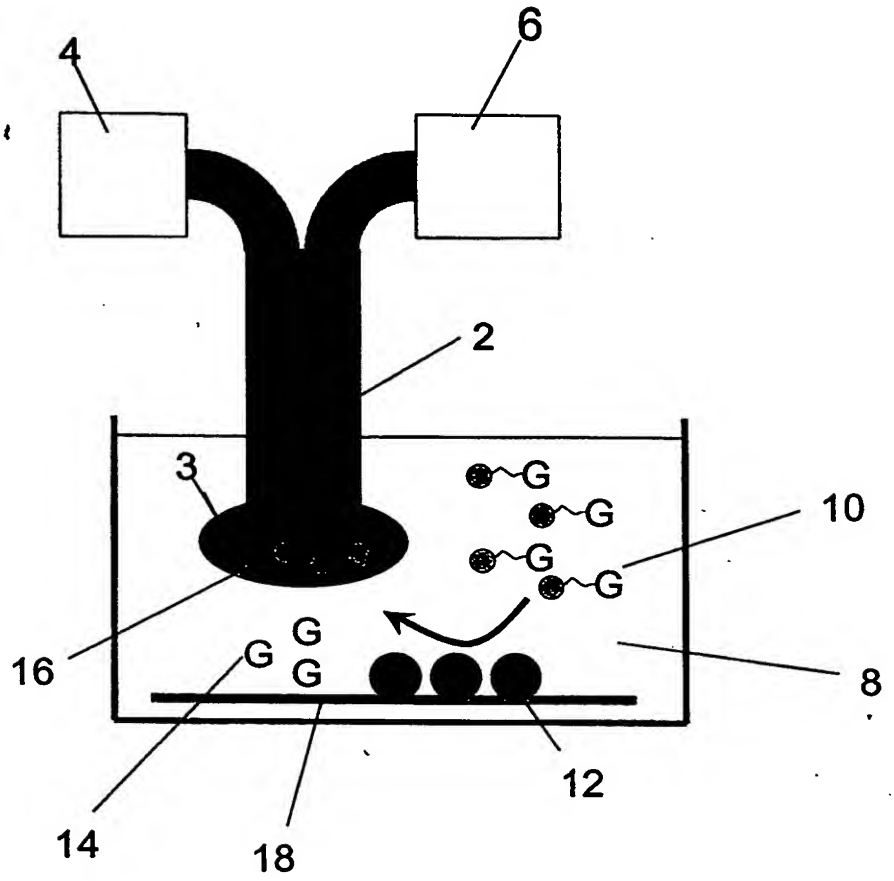


FIGURE 1

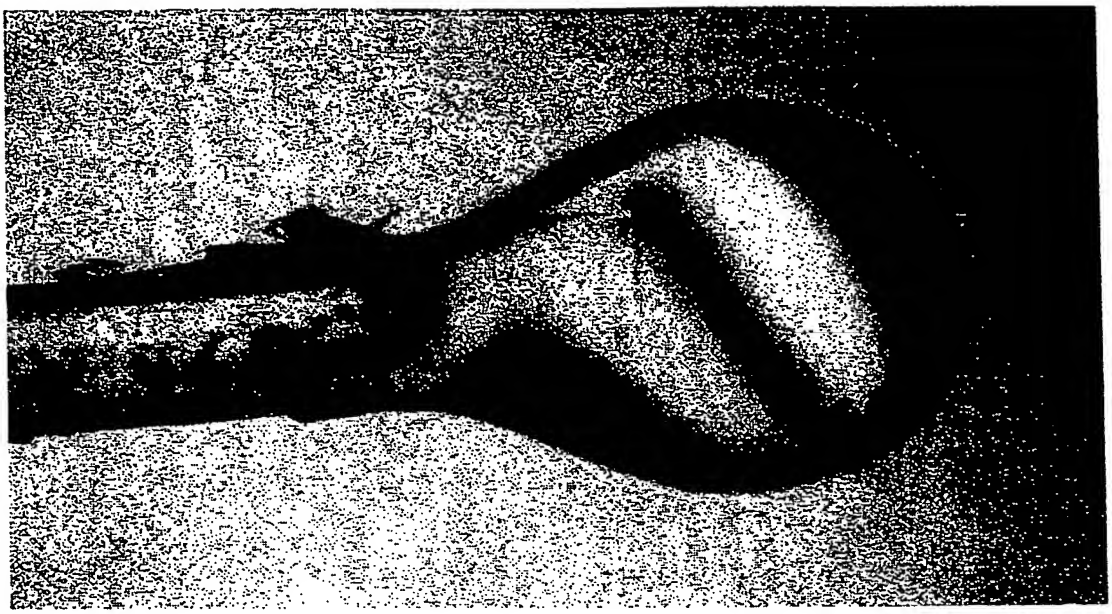


FIGURE 2A

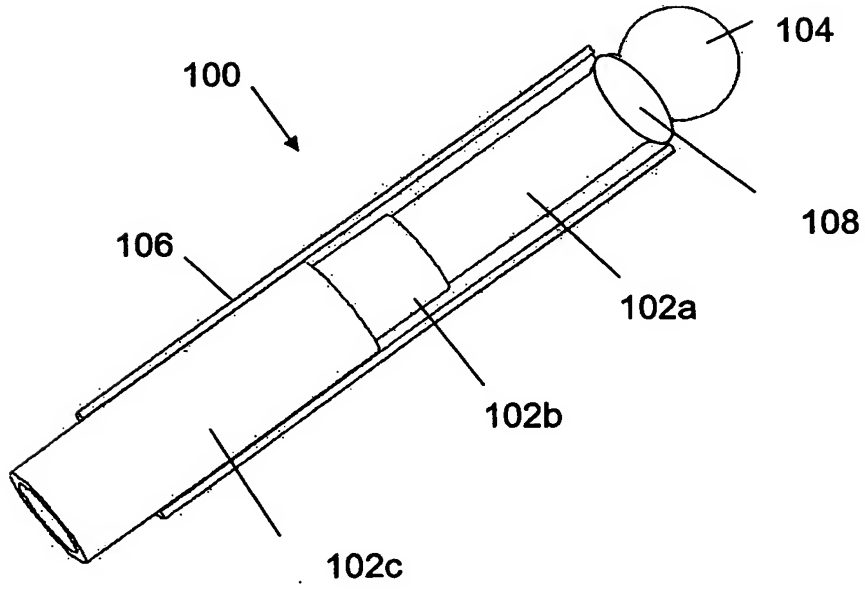


FIGURE 2B

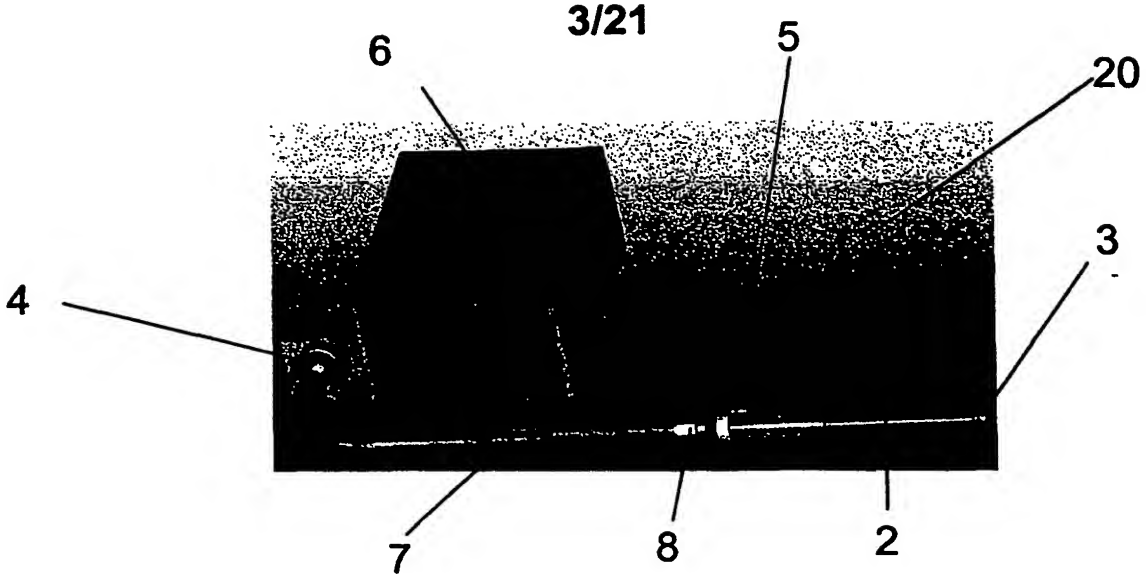


FIGURE 3A

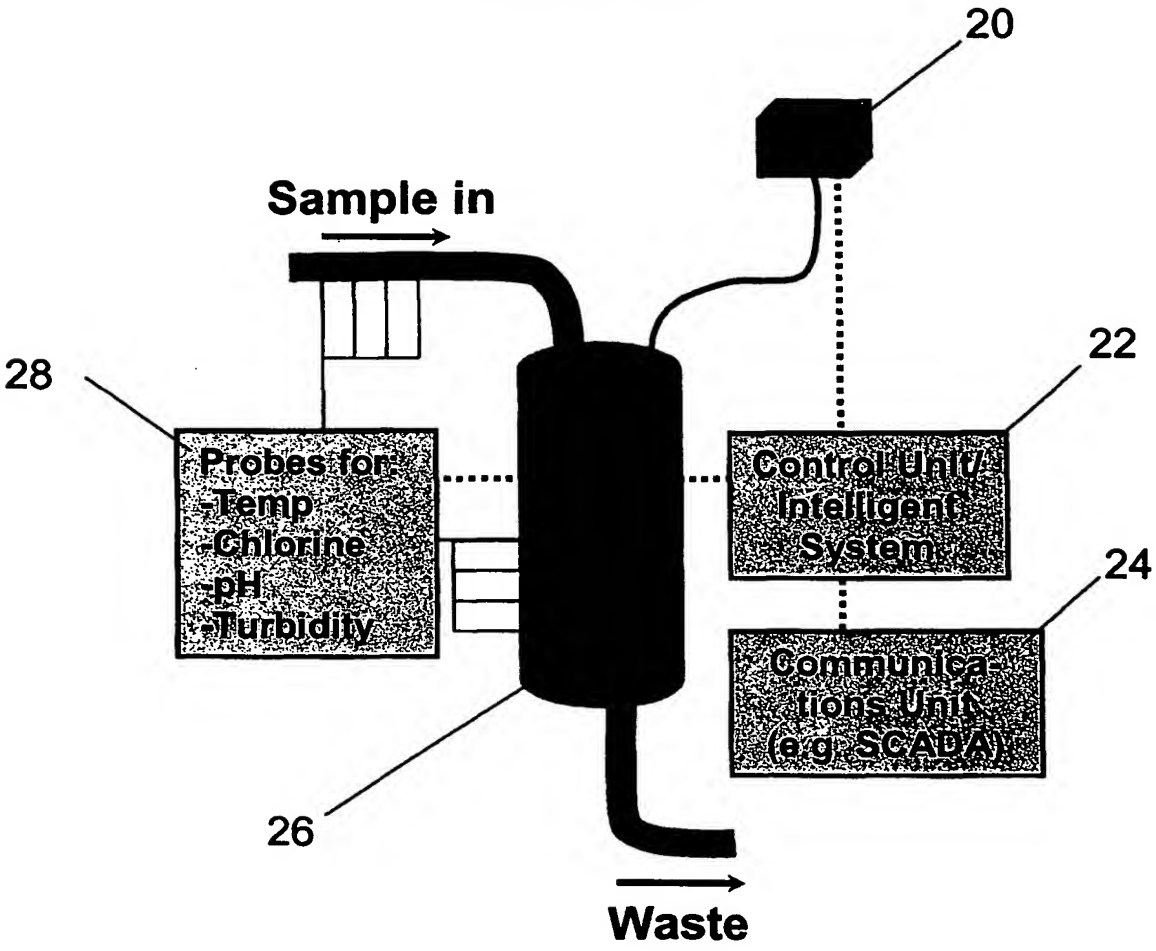


FIGURE 3B

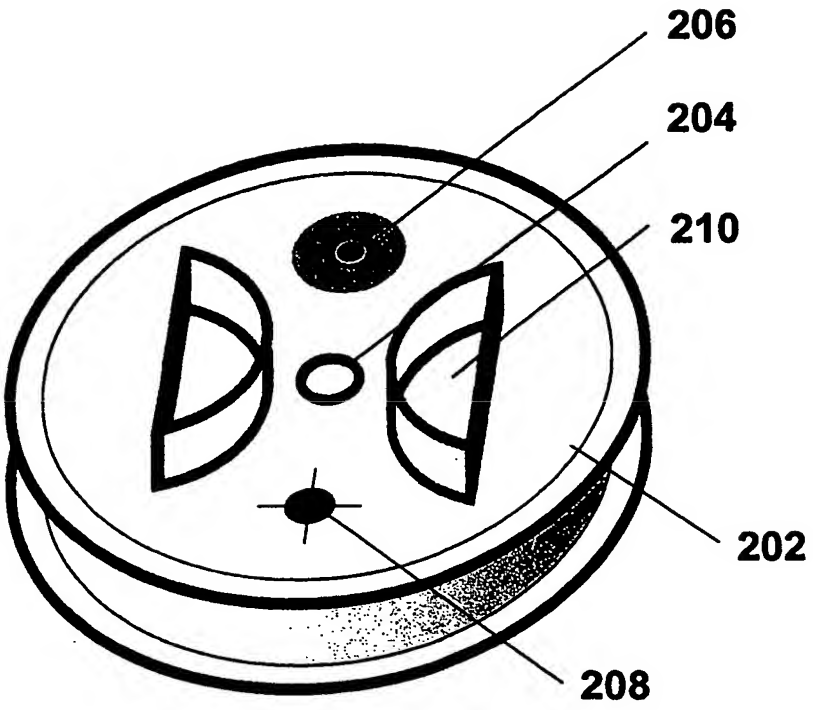


FIGURE 3C

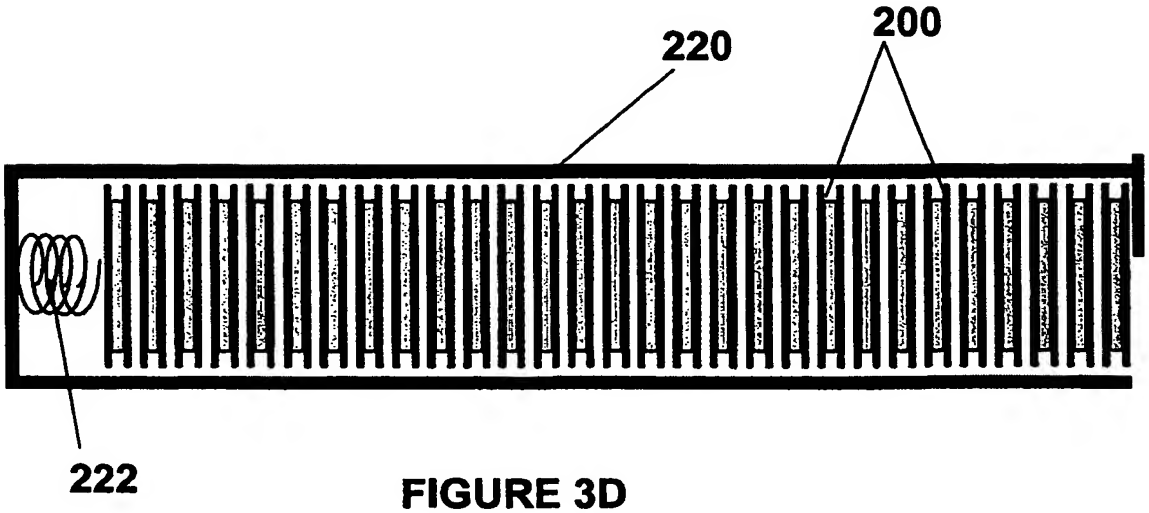


FIGURE 3D

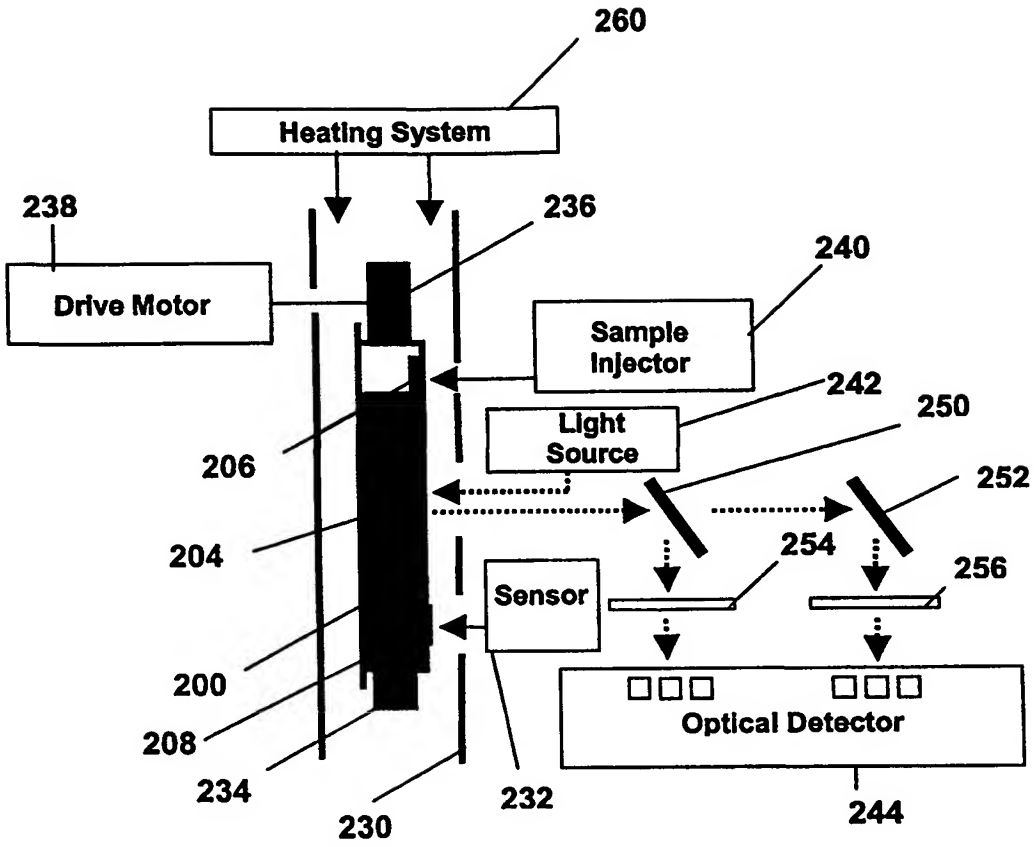

260
Heating System
238
236
240
Drive Motor
Sample Injector
242
250
Light Source
206
252
204
254
256
Sensor
200
208
234
232
230
Optical Detector
244

FIGURE 3E

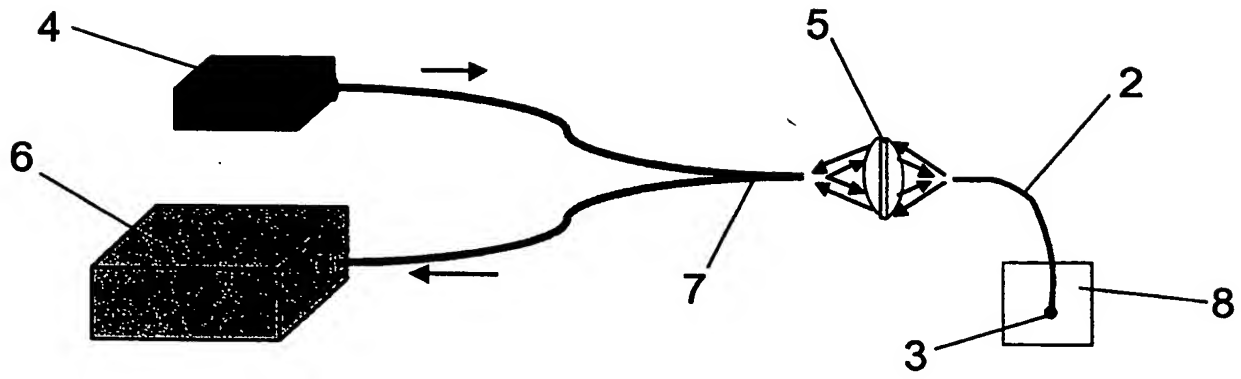


FIGURE 4

FIGURE 5

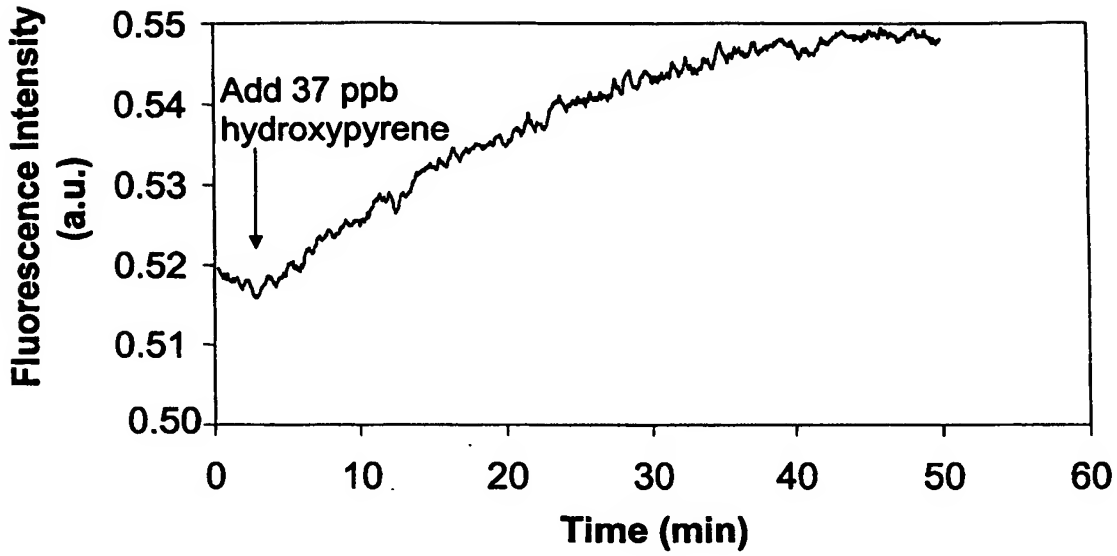


FIGURE 6

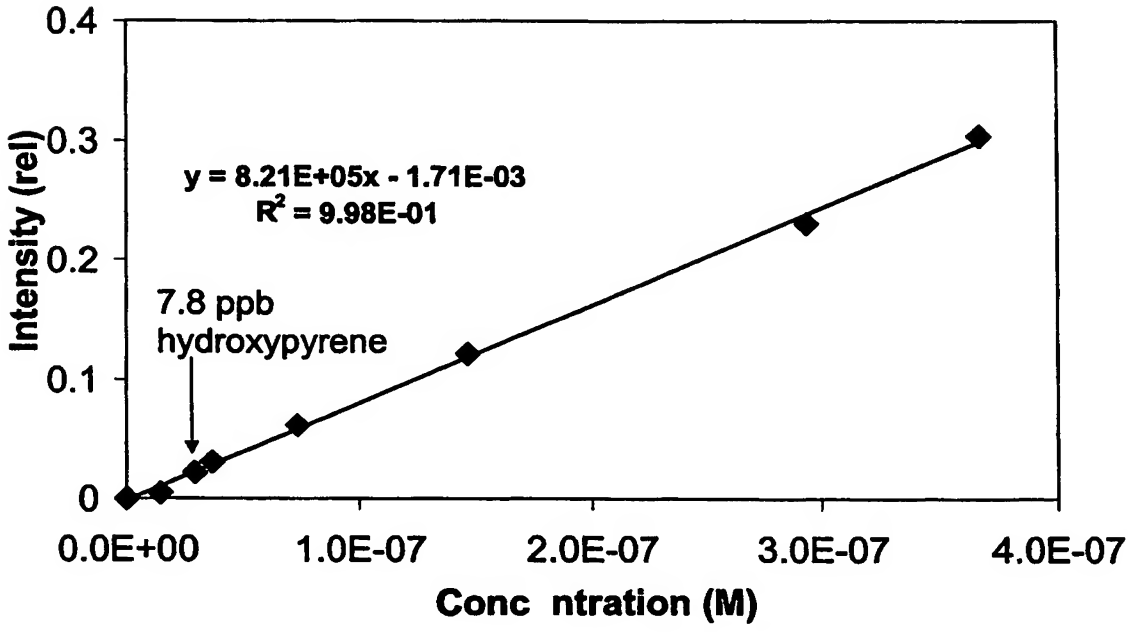


FIGURE 7

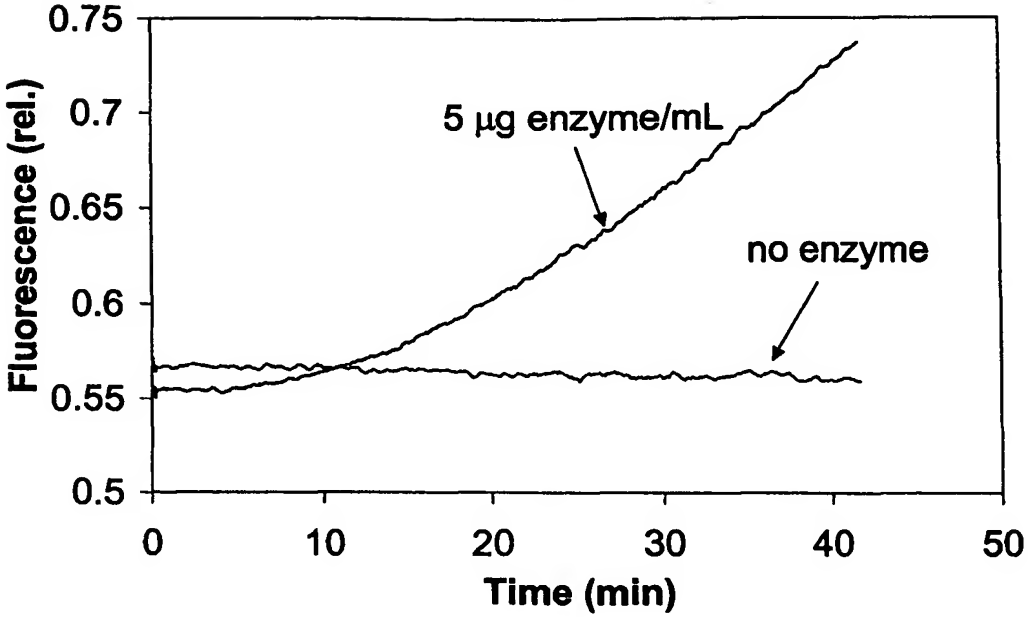


FIGURE 8

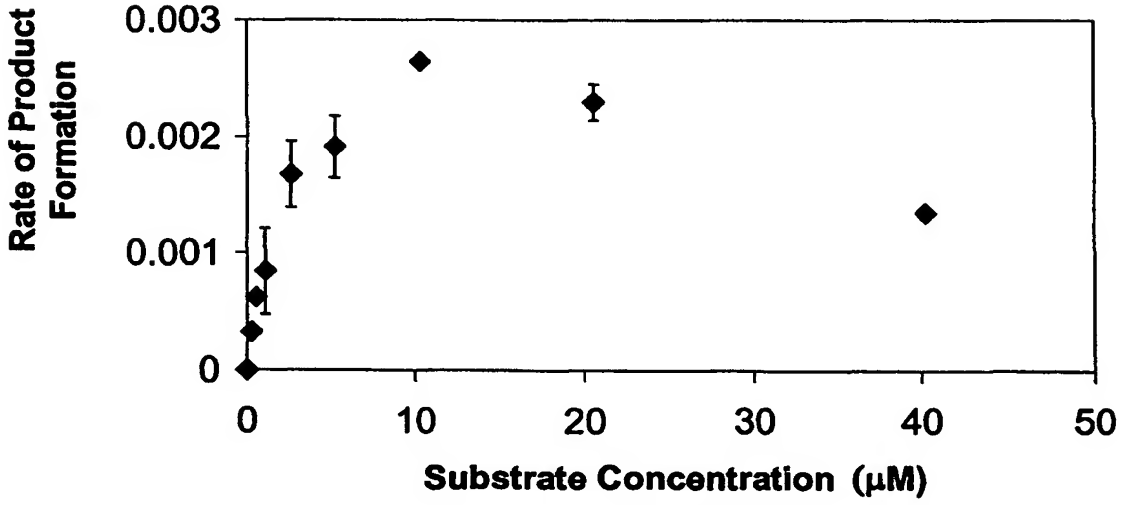


FIGURE 9

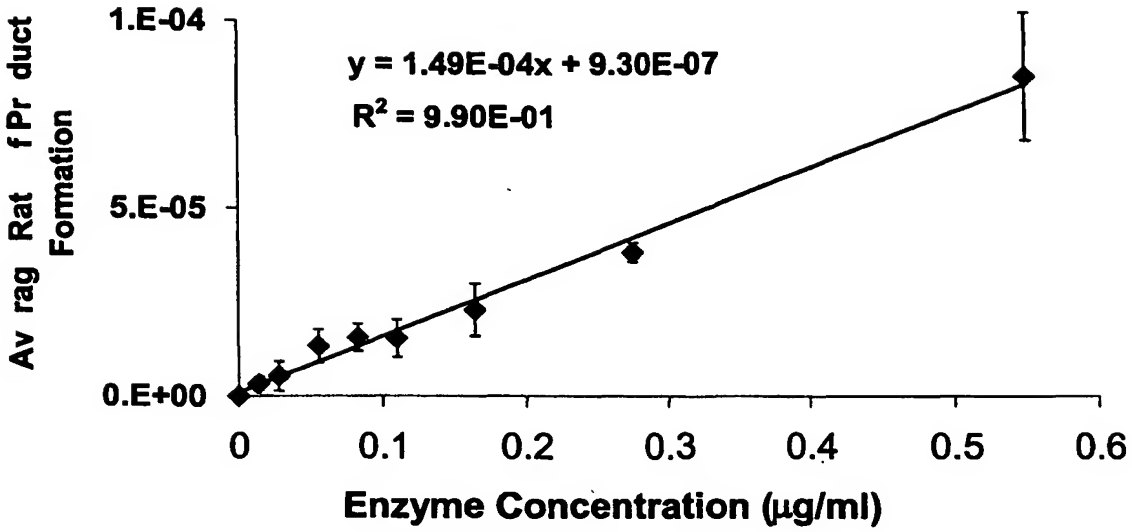


FIGURE 10

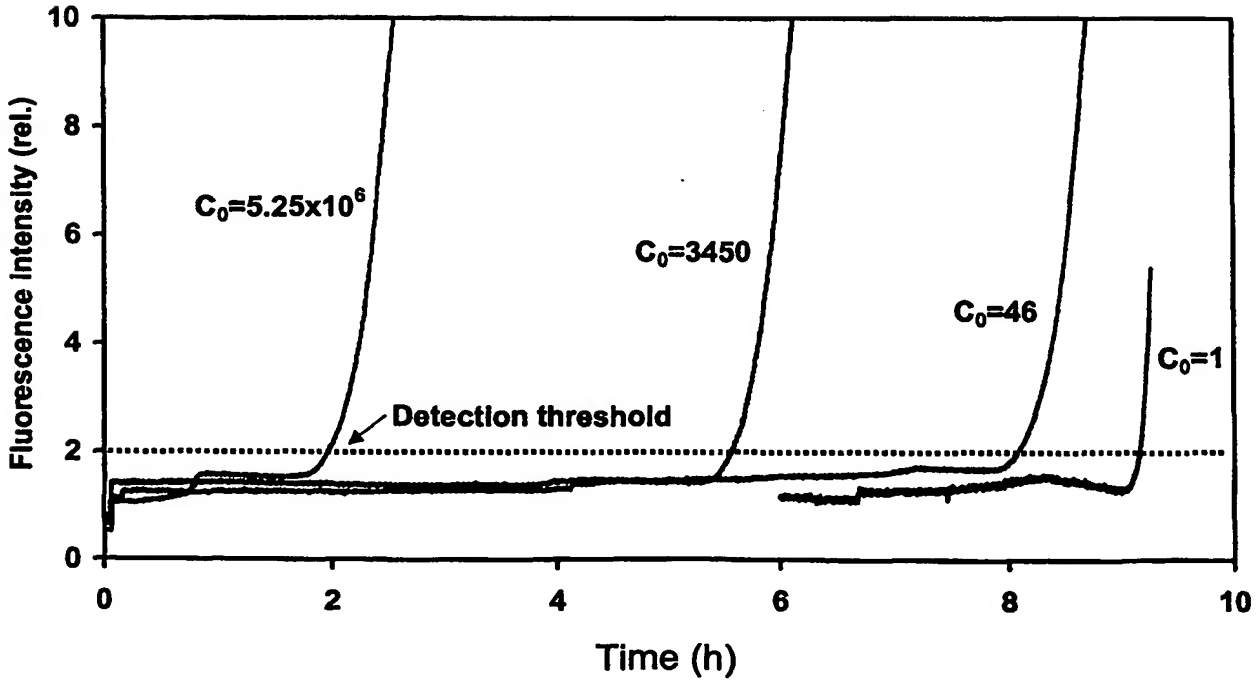


FIGURE 11A

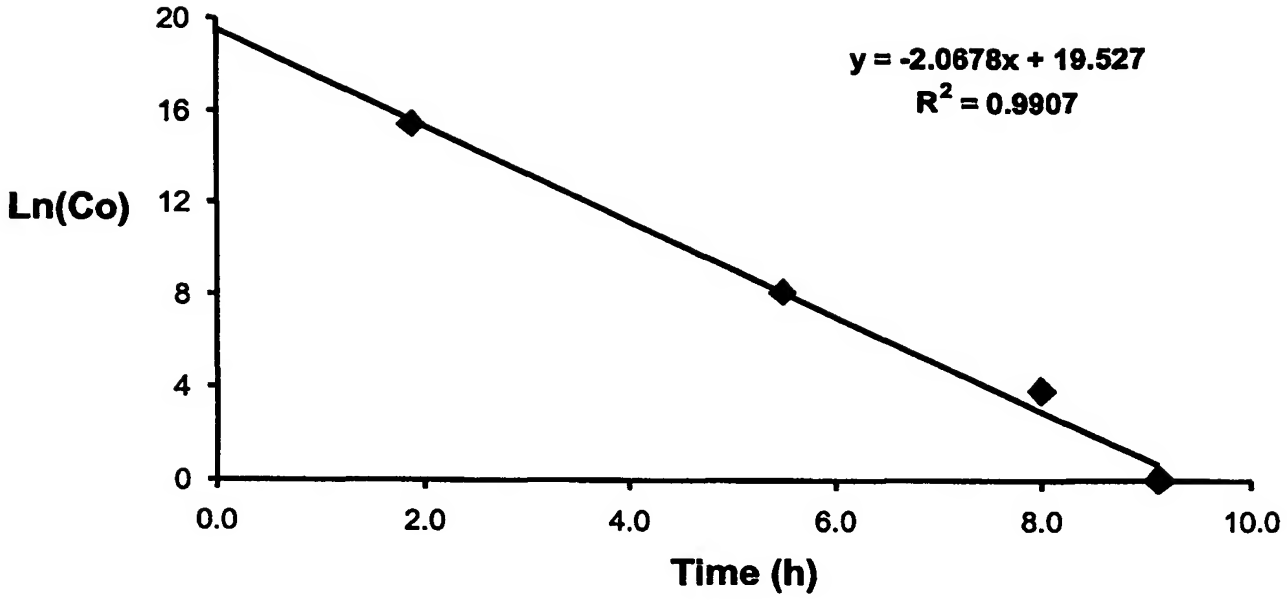


FIGURE 11B

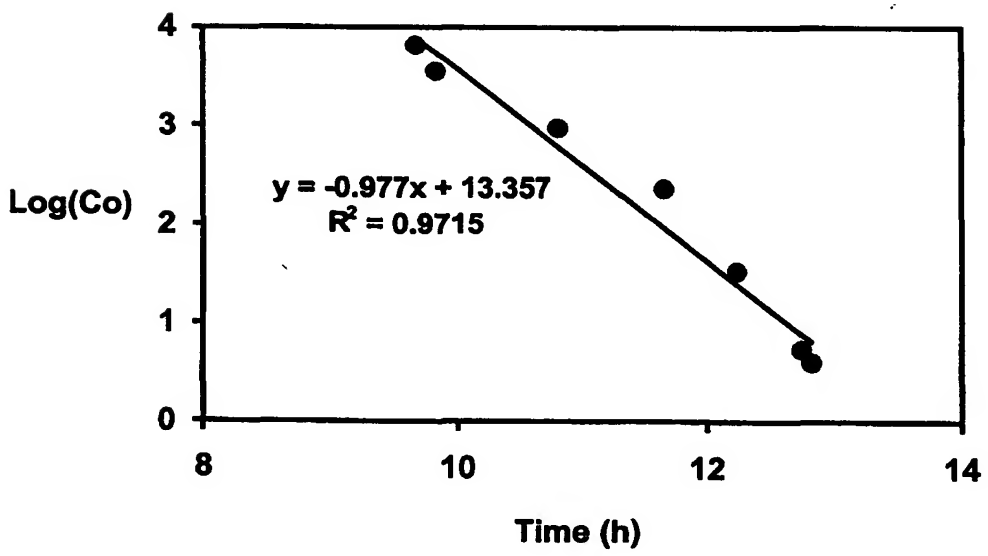


FIGURE 11C

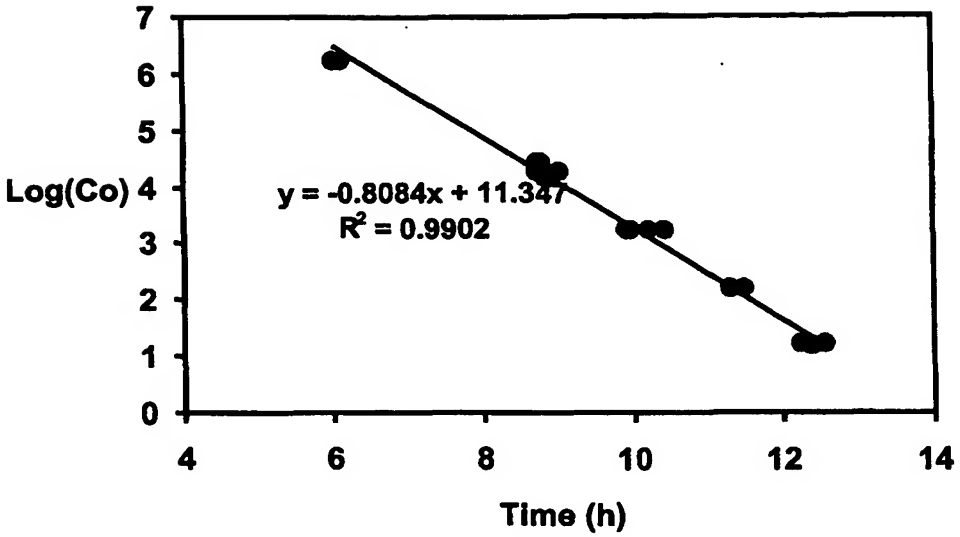


FIGURE 11D

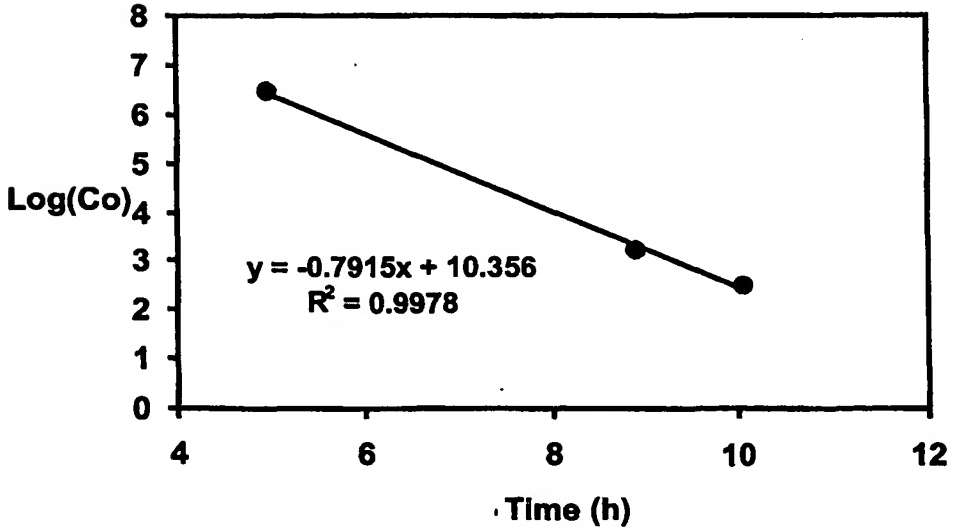


FIGURE 12A

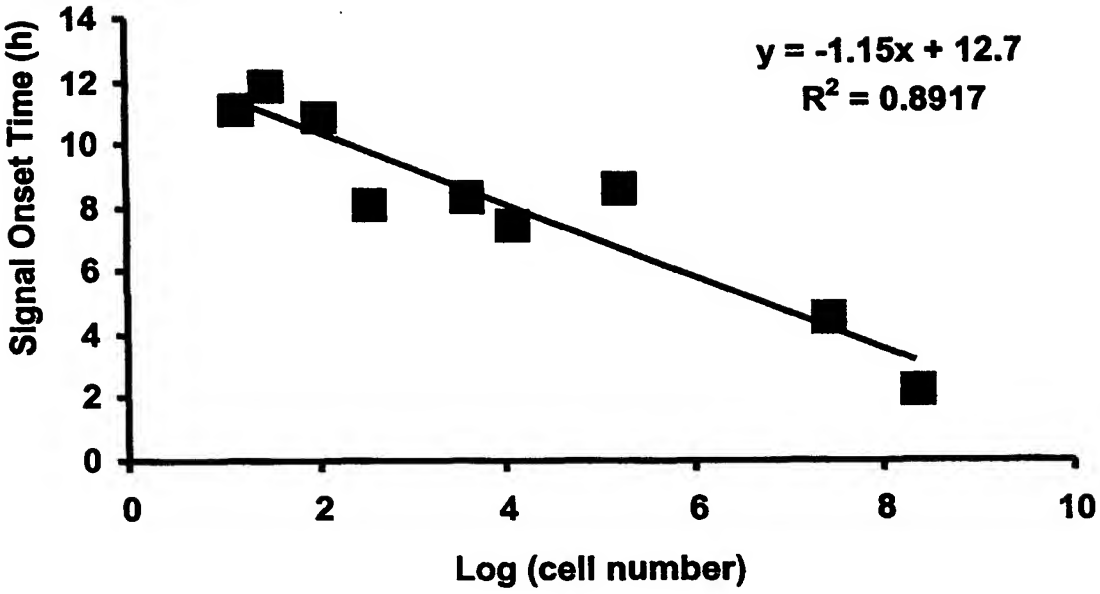


FIGURE 12B

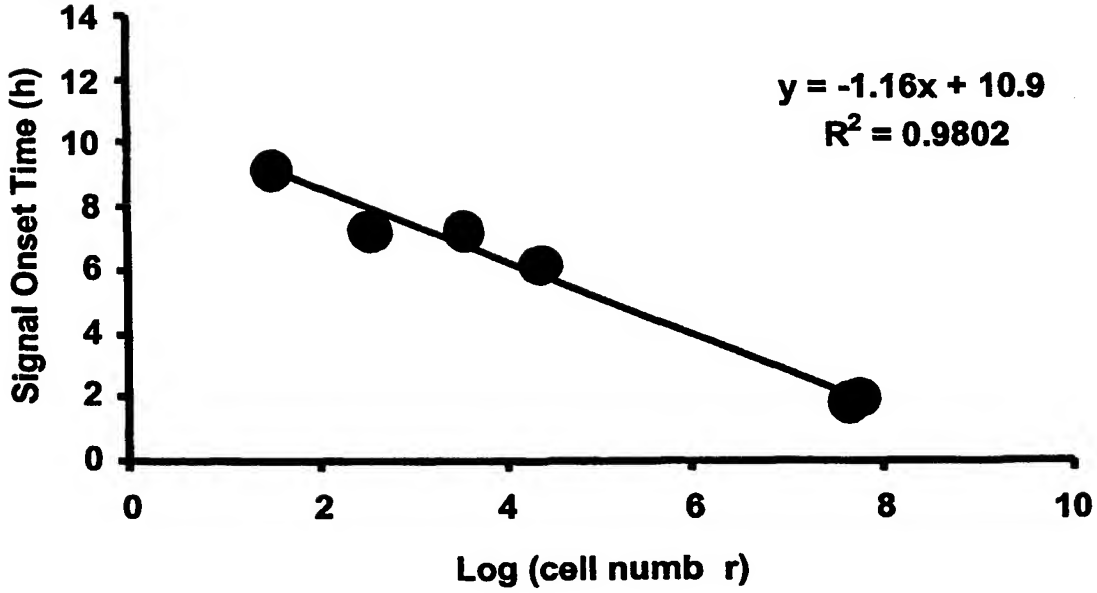


FIGURE 13A

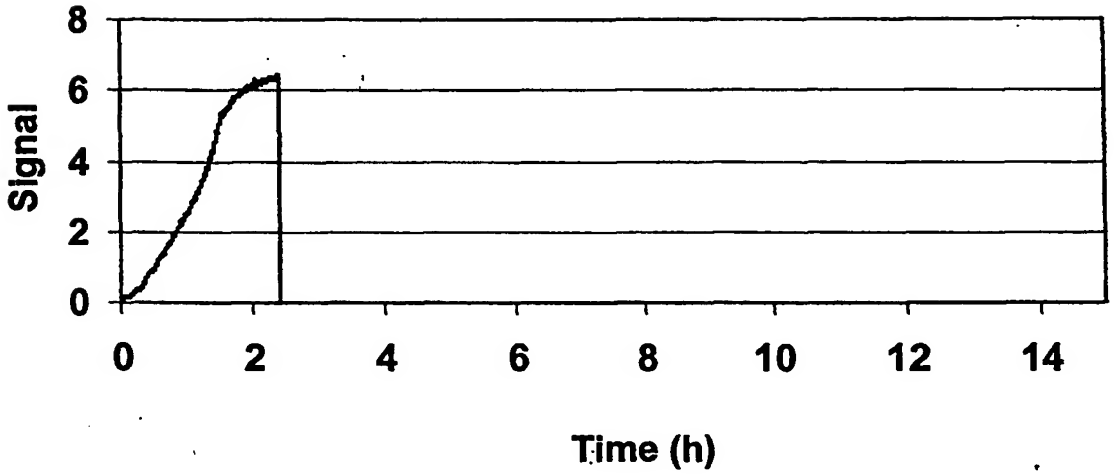


FIGURE 13B

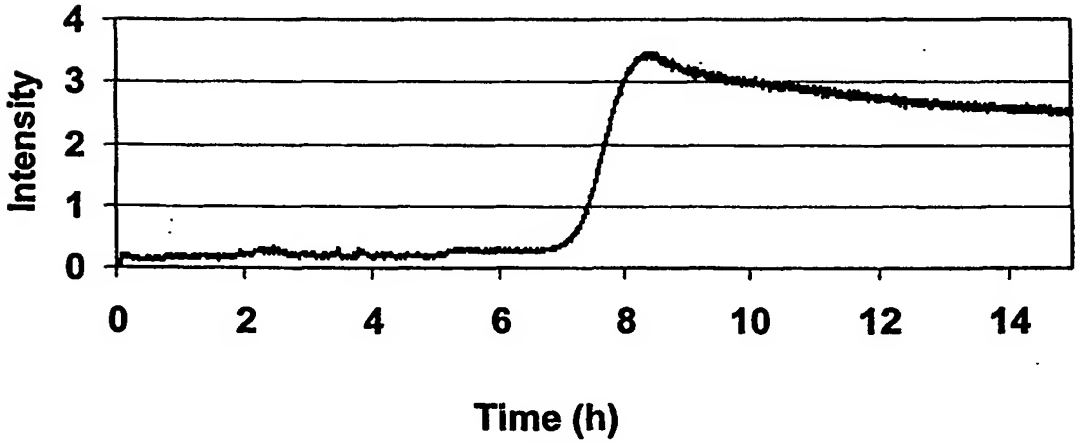


FIGURE 14

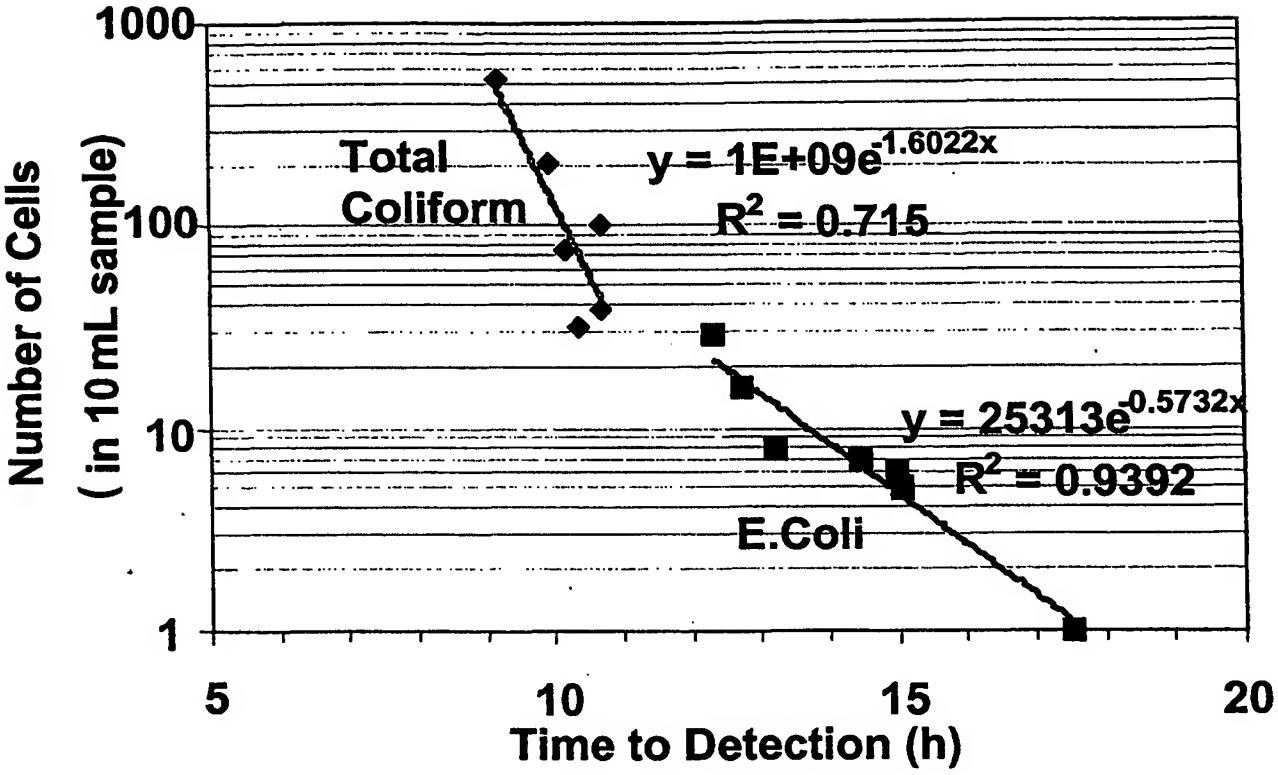
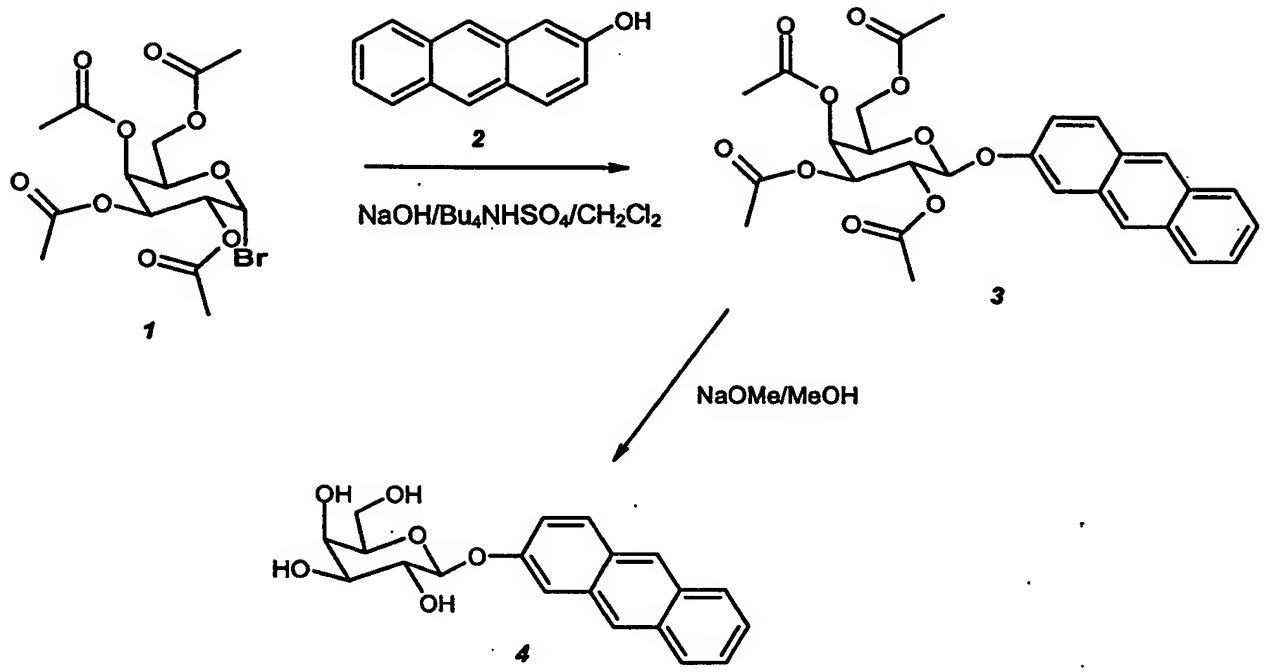

1000
100
10
1
Number of Cells
(in 10 mL sample)
Total
Coliform
y = 1E+09e-1.6022x
R2 = 0.715
y = 25313e-0.5732x
R2 = 0.9392
E.Coli
5
10
15
20
Time to Detection (h)

FIGURE 15



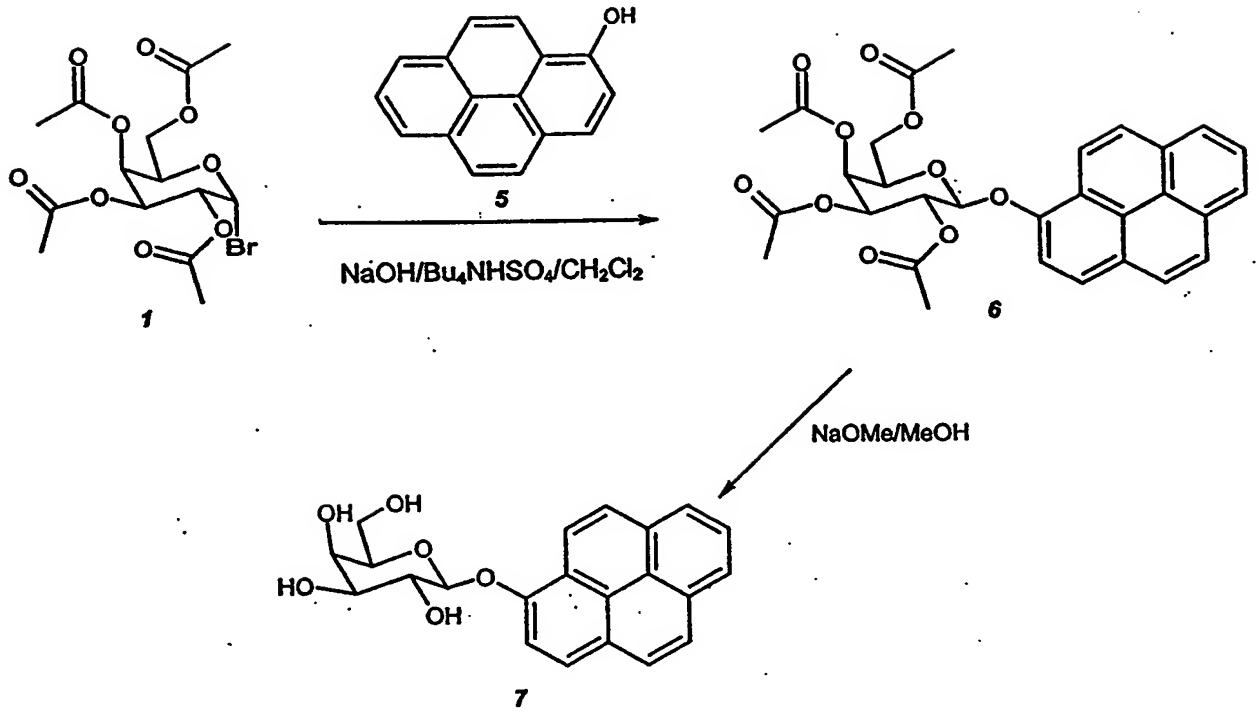
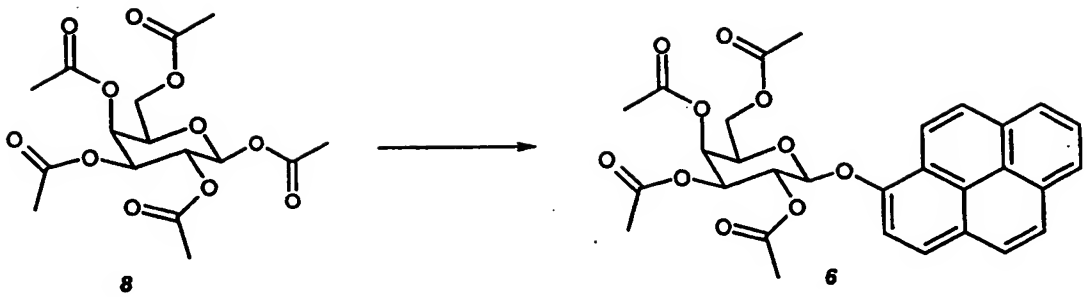


FIGURE 16



8 6

FIGURE 17

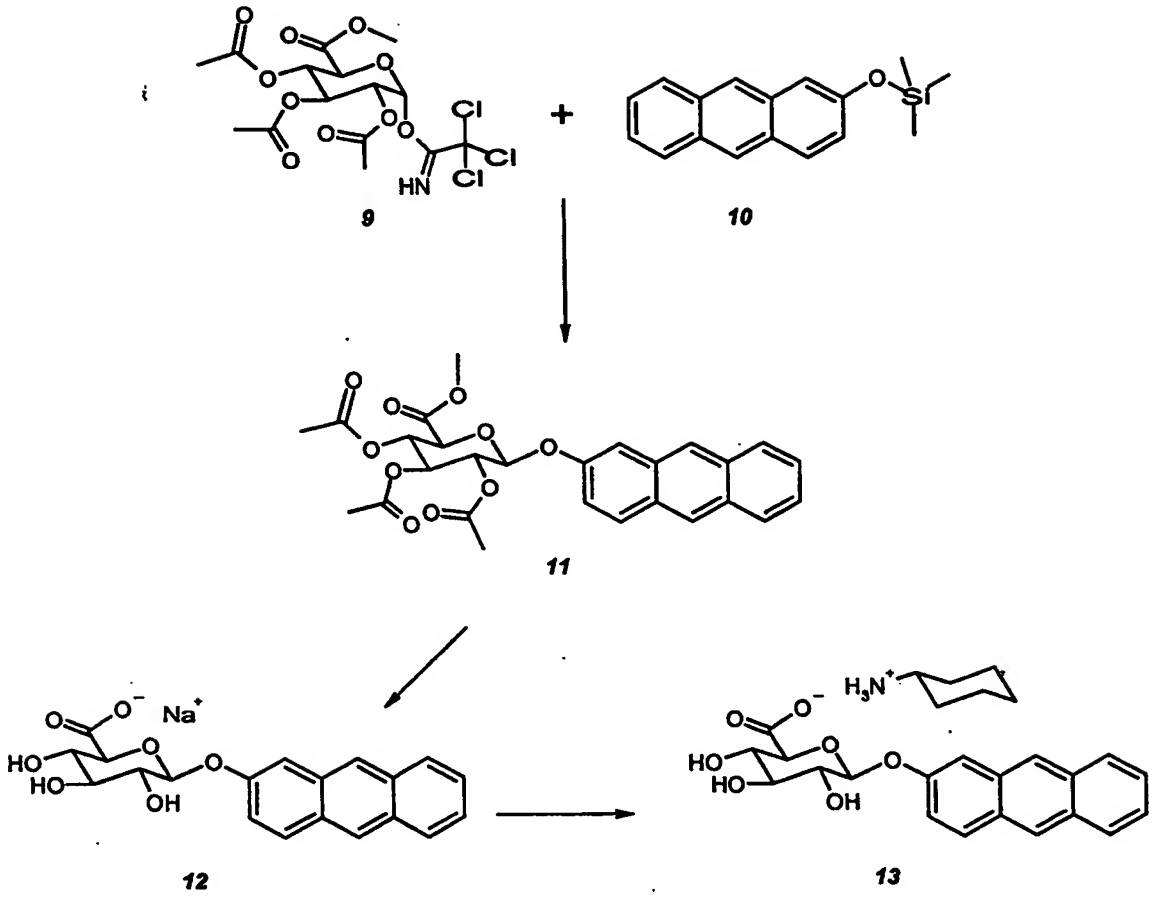


FIGURE 18

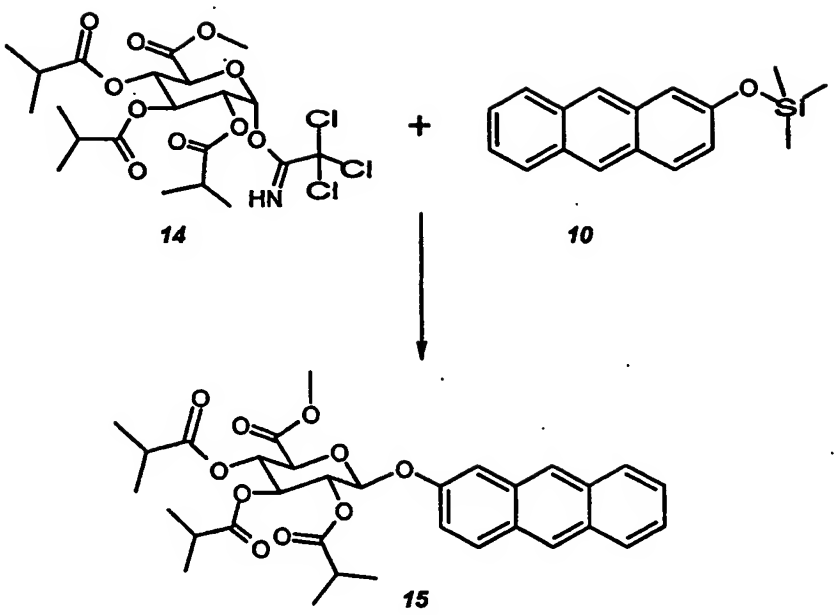


FIGURE 19

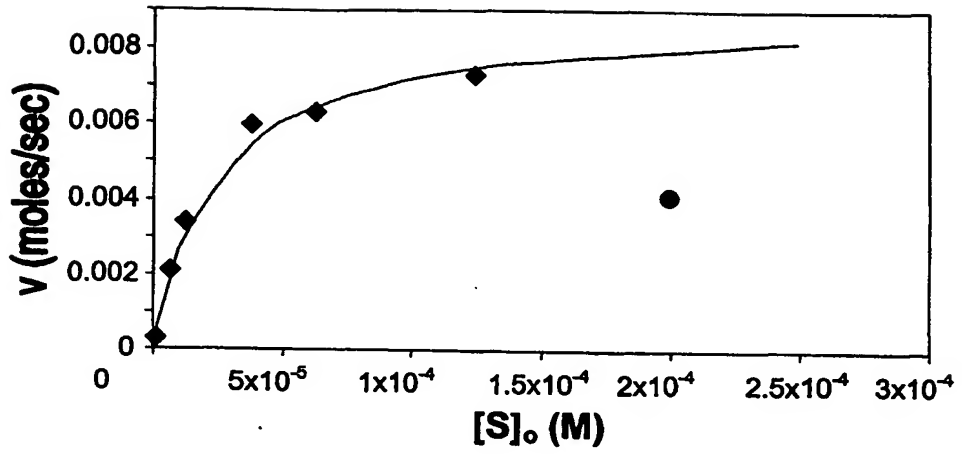


FIGURE 20

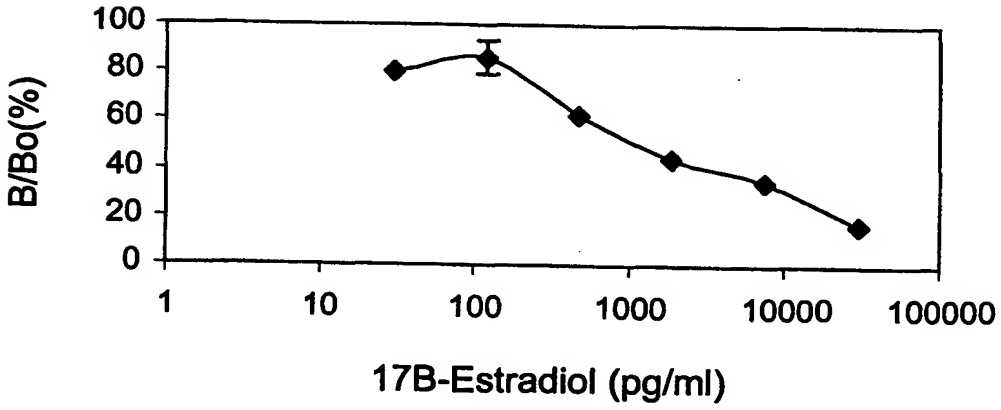


FIGURE 21

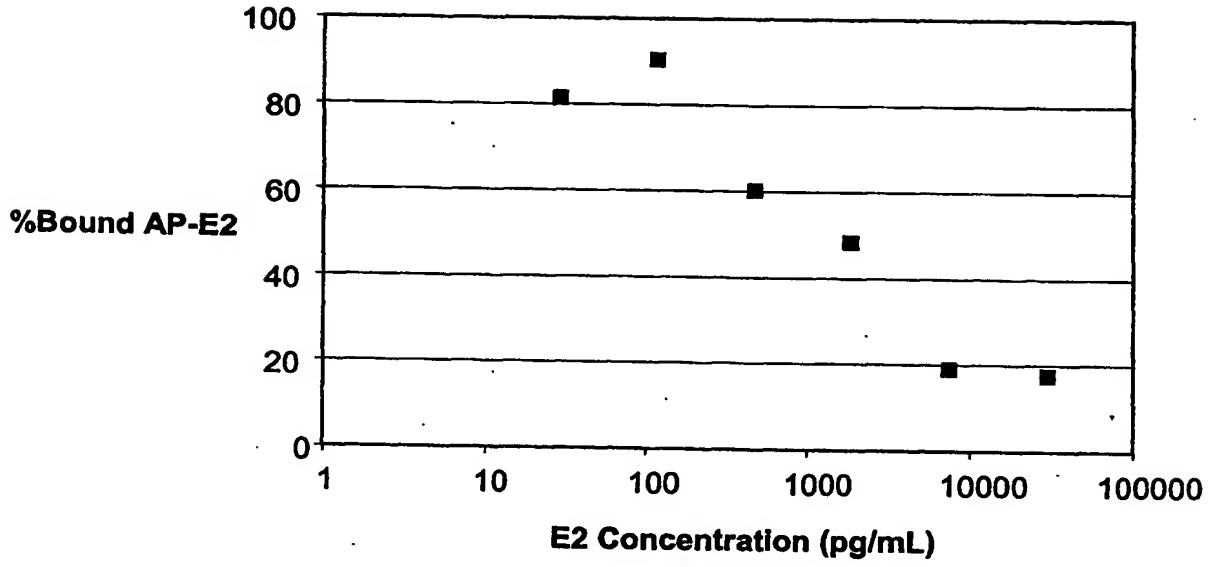

100
80
60
40
20
0
%Bound AP-E2
1
10
100
1000
10000
100000
E2 Concentration (pg/mL)

FIGURE 22